



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

规格承认书 Approval Sheet

客户名称 Customer	攻氮	日期 Data	2022/06/30
产品名称 Product	WiFi天线	客户机型 Models	AB04
料号 P/N	Main:F409-14MG-153 Aux:F410-14MB-142	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC;Main:RF0.81四代端子灰色同轴线;L=153mm; Aux:RF0.81四代端子黑色同轴线;L=142mm		

供应商承认签印 Vender Approved By	客户承认签印 Customer Approved By
	
Checked By:	Checked By:
Approval By:	Approval By:

文件修订履历表

版本 Version	修订内容 Revise The Content	修订人 Revused	核准 Approval	修订日期 Date	备注 Note

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address:1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi; 5GWiFi
Antenna From	FPC
Impedance	50 Ω
Polarization	Linear
Peak Effi	48%@2.4G; 59%@5G
Peak Gain	1.9dBi@2.4G; 6.0dBi@5G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C ~+60°C
Storage Temp	-10°C ~+70°C
Humidity	10~95%RH



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WiFi Ant Test Information

Frequency	2.4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		

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Antenna Placement



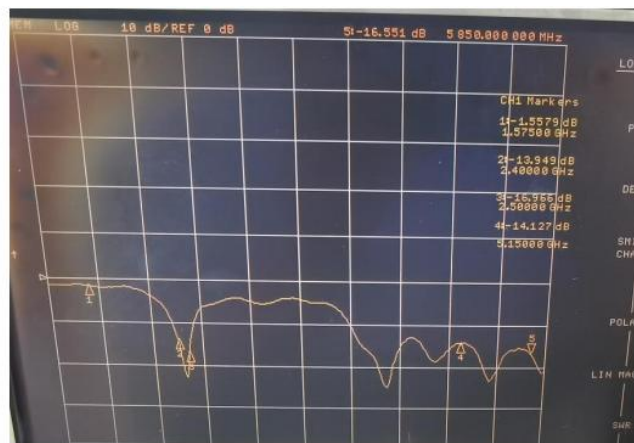
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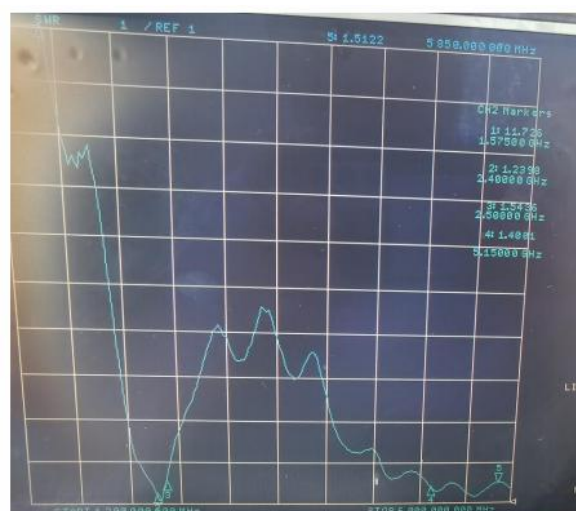
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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.50	1.33	1.48	1.34
Return Loss (DB)	-13.94	-16.96	-14.12	-16.55



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.23	1.54	1.40	1.51
Return Loss (DB)	-19.40	-13.49	-15.58	-13.81

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WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	10.87	CH1 11Mbps	-71.79
	2437	CH6 11Mbps	11.05	CH6 11Mbps	-70
	2467	CH11 11Mbps	8.08	CH11 11Mbps	-71.69
802.11a		TRP		TIS	
	5180	CH36 6Mbps	11.11	CH36 54Mbps	-71.69
	5300	CH60 6Mbps	11.56	CH60 54Mbps	-71.84
	5805	CH161 6Mbps	11.82	CH161 54Mbps	-71.73

Efficiency Table (2.4G)

Passive Test For WIFI2.4 ANT0												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	34.12	-4.67	1.56	-0.59	20.967	13.156	1.56	-14.75	6.23	90	45.79	46.02
2410	33.31	-4.77	1.49	-0.66	20.454	12.854	1.49	-16.16	6.27	90	46	46.28
2420	34.22	-4.66	1.73	-0.42	21.08	13.139	1.73	-16.49	6.39	90	45.66	45.93
2430	32.6	-4.87	1.48	-0.67	20.159	12.446	1.48	-16.32	6.34	60	45.82	46.17
2440	32.53	-4.88	1.46	-0.69	20.253	12.279	1.46	-15.08	6.34	60	45.92	46.28
2450	33.62	-4.73	1.54	-0.61	21.039	12.585	1.54	-13.79	6.27	60	45.95	46.38
2460	34.39	-4.64	1.65	-0.5	21.601	12.79	1.65	-13.91	6.29	60	45.93	46.31
2470	34.26	-4.65	1.66	-0.49	21.523	12.74	1.66	-13.7	6.31	60	46.24	46.64
2480	36.87	-4.33	1.83	-0.17	22.995	13.872	1.98	-13.16	6.32	60	46.17	46.56
2490	37.14	-4.3	1.84	-0.12	22.984	14.156	2.03	-13.32	6.33	60	46.38	46.78
2500	37.74	-4.23	1.87	-0.09	23.211	14.525	2.06	-13.72	6.3	60	46.26	46.65

Passive Test For WIFI2.4 ANT1												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	46.08	-3.36	1.69	-0.46	28.112	17.971	1.69	-13.53	5.05	60	45.79	46.02
2410	46.12	-3.36	1.87	-0.28	28.247	17.877	1.87	-13.06	5.24	60	46	46.28
2420	46.44	-3.33	1.90	-0.22	28.563	17.88	1.93	-13.47	5.26	30	45.66	45.93
2430	45.93	-3.38	1.79	-0.36	28.314	17.613	1.79	-14.41	5.17	30	45.82	46.17
2440	47.06	-3.27	1.78	-0.37	29.236	17.829	1.78	-15.6	5.06	30	45.92	46.28
2450	47.89	-3.2	1.84	-0.31	29.961	17.932	1.84	-15.72	5.03	60	45.95	46.38
2460	47.95	-3.19	1.83	-0.32	30.11	17.844	1.83	-16.64	5.02	60	45.93	46.31
2470	48.13	-3.18	1.84	-0.31	30.139	17.99	1.84	-17.88	5.01	60	46.24	46.64
2480	48.22	-3.17	1.81	-0.34	30.095	18.121	1.81	-17.03	4.97	60	46.17	46.56
2490	45.76	-3.4	1.63	-0.52	28.362	17.393	1.63	-15.45	5.03	90	46.38	46.78
2500	42.36	-3.73	1.34	-0.81	26.108	16.252	1.34	-14.77	5.07	90	46.26	46.65

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Efficiency Table (5G)

Passive Test For WiFi5G ANTO												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	48.34	-3.16	5	2.85	20.551	27.789	5	-21.23	8.16	60	50.12	49.7
5170	44.3	-3.54	4.56	2.41	18.993	25.306	4.56	-19.5	8.09	60	50.36	50
5190	50.12	-3	4.99	2.84	21.739	28.379	4.99	-21.34	7.99	60	50.7	50.23
5210	43.63	-3.6	4.28	2.13	19.143	24.484	4.28	-25.3	7.88	60	50.57	50.18
5230	50.61	-2.96	4.91	2.76	22.61	27.998	4.91	-19.5	7.87	60	50.51	50.17
5250	45.56	-3.41	4.35	2.2	20.646	24.911	4.35	-18.1	7.76	60	50.39	50.09
5270	52.17	-2.83	5.01	2.86	23.817	28.349	5.01	-18.54	7.84	120	50.63	50.38
5290	51.61	-2.87	5.1	2.95	23.55	28.061	5.1	-20.39	7.97	90	50.7	50.48
5310	52.08	-2.83	5.11	2.96	23.813	28.264	5.11	-18.89	7.95	120	50.43	50.35
5330	51.29	-2.9	4.95	2.8	23.746	27.544	4.95	-18.11	7.85	120	50.85	50.78
5350	55.19	-2.58	5.27	3.12	25.608	29.579	5.27	-18.33	7.85	120	50.95	50.94
5370	53.32	-2.73	5.2	3.05	24.604	28.711	5.2	-18.3	7.93	120	50.78	50.82
5390	50.6	-2.96	5.04	2.89	23.36	27.24	5.04	-22.17	7.99	120	50.6	50.57
5410	59.52	-2.25	5.67	3.52	27.509	32.015	5.67	-19.37	7.92	120	51.24	51.15
5430	52.2	-2.82	5.06	2.91	24.079	28.124	5.06	-17.6	7.89	120	50.81	50.82
5450	58.93	-2.3	5.68	3.53	27.066	31.868	5.68	-18.14	7.98	120	50.78	50.92
5470	51.92	-2.85	5.19	3.04	23.683	28.241	5.19	-21.56	8.04	90	51.02	50.92
5490	58.46	-2.33	5.76	3.61	26.491	31.965	5.76	-20.03	8.09	90	51.11	50.98
5510	54.52	-2.63	5.38	3.23	24.492	30.024	5.38	-22.51	8.02	90	51.07	51.05
5530	59.51	-2.25	5.77	3.62	26.56	32.947	5.77	-20.03	8.03	90	51.51	51.37
5550	57.55	-2.4	5.76	3.61	25.582	31.971	5.76	-21.3	8.16	90	51.7	51.57
5570	59.75	-2.24	6	3.85	26.456	33.297	6	-22.8	8.23	90	51.5	51.41
5590	55.31	-2.57	5.62	3.47	24.329	30.986	5.62	-19.95	8.2	60	51.59	51.64
5610	58.3	-2.34	5.89	3.74	25.594	32.708	5.89	-20.19	8.23	90	51.19	51.24
5630	51.39	-2.89	5.31	3.16	22.379	29.011	5.31	-18.53	8.2	90	51.19	51.18
5650	57.65	-2.39	5.83	3.68	25.009	32.638	5.83	-19.13	8.22	60	51.27	51.35
5670	55.86	-2.53	5.54	3.39	24.071	31.793	5.54	-17.97	8.07	60	51.87	52.03
5690	52.57	-2.79	5.2	3.05	22.361	30.21	5.2	-18.23	8	60	51.65	51.78
5710	56.83	-2.45	5.49	3.34	24.119	32.716	5.49	-19.24	7.94	60	51.72	51.82
5730	54.3	-2.65	5.22	3.07	22.876	31.427	5.22	-18	7.87	30	51.44	51.54
5750	59.64	-2.24	5.64	3.49	24.888	34.756	5.64	-16.6	7.89	30	51.34	51.37
5770	56.07	-2.51	5.27	3.12	23.123	32.951	5.27	-17.07	7.78	30	51.02	51.06
5790	56.92	-2.45	5.17	3.02	23.35	33.573	5.17	-16.3	7.62	30	51.25	51.33
5810	56.42	-2.49	5.04	2.89	23.053	33.366	5.04	-17.96	7.53	30	51.4	51.47
5830	56.87	-2.45	5.03	2.88	23.204	33.664	5.03	-18.06	7.48	30	51.9	51.91
5850	54.16	-2.66	4.72	2.57	21.811	32.351	4.72	-19.72	7.38	30	51.77	51.94

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Efficiency Table (5G)

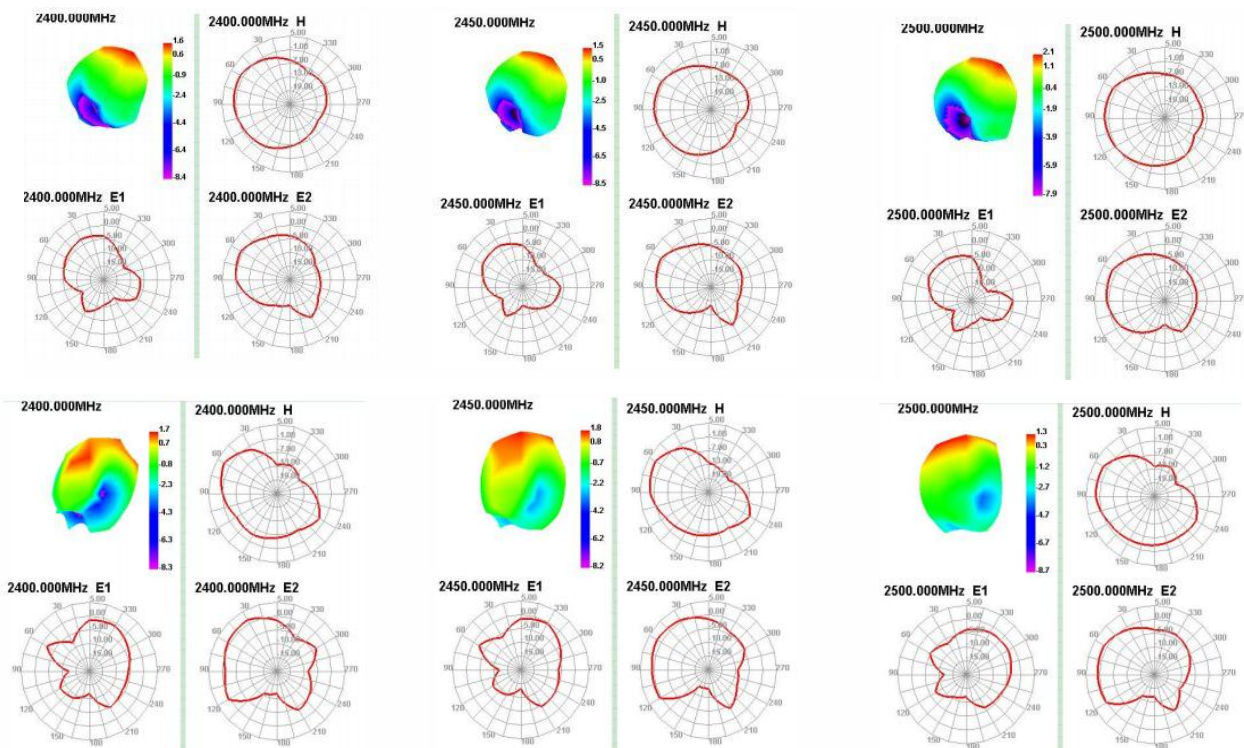
Passive Test For WIFI5G ANT1												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	23.47	-6.3	-0.34	-2.49	12.379	11.088	-0.34	-19.17	5.96	0	50.12	49.7
5170	19.99	-6.99	-1.32	-3.47	10.53	9.465	-1.32	-21.84	5.67	0	50.36	50
5190	21.39	-6.7	-0.92	-3.07	11.135	10.257	-0.92	-20.51	5.78	0	50.7	50.23
5210	17.01	-7.69	-1.88	-4.03	8.827	8.179	-1.88	-21.76	5.82	0	50.57	50.18
5230	21.05	-6.77	-1.05	-3.2	10.854	10.192	-1.05	-24.23	5.72	0	50.51	50.17
5250	17.41	-7.59	-1.98	-4.13	9.013	8.392	-1.98	-26.18	5.61	0	50.39	50.09
5270	21.4	-6.69	-0.94	-3.09	11.017	10.388	-0.94	-28.42	5.76	0	50.63	50.38
5290	22.19	-6.54	-0.89	-3.04	11.358	10.829	-0.89	-28.38	5.64	0	50.7	50.48
5310	22.27	-6.52	-1.01	-3.16	11.316	10.956	-1.01	-24.46	5.51	90	50.43	50.35
5330	23.73	-6.25	-0.61	-2.76	11.88	11.849	-0.61	-20.81	5.64	0	50.85	50.78
5350	22.66	-6.45	-0.84	-2.99	11.313	11.352	-0.84	-22.78	5.61	90	50.95	50.94
5370	24.77	-6.06	-0.59	-2.74	12.421	12.346	-0.59	-26.13	5.48	90	50.78	50.82
5390	21.41	-6.69	-1.26	-3.41	10.688	10.726	-1.26	-24.12	5.44	90	50.6	50.57
5410	28.64	-5.43	0.05	-2.1	14.221	14.423	0.05	-18.27	5.48	90	51.24	51.15
5430	21.53	-6.67	-0.99	-3.14	10.79	10.735	-0.99	-20.27	5.68	90	50.81	50.82
5450	25.1	-6	-0.23	-2.38	12.771	12.326	-0.23	-21.26	5.78	90	50.78	50.92
5470	23.04	-6.37	-0.53	-2.68	11.737	11.308	-0.53	-18.1	5.85	60	51.02	50.92
5490	24.71	-6.07	-0.15	-2.3	12.432	12.28	-0.15	-17.81	5.92	60	51.11	50.98
5510	26.63	-5.75	0.32	-1.83	13.471	13.156	0.32	-18.22	6.07	60	51.07	51.05
5530	25.21	-5.98	0.11	-2.04	12.916	12.295	0.11	-18.68	6.1	60	51.51	51.37
5550	30.15	-5.21	0.81	-1.34	15.51	14.644	0.81	-19.24	6.02	60	51.7	51.57
5570	27.68	-5.58	0.35	-1.8	13.924	13.752	0.35	-21.16	5.93	60	51.5	51.41
5590	30.92	-5.1	0.76	-1.39	15.337	15.585	0.76	-21.78	5.85	60	51.59	51.64
5610	30.61	-5.14	0.74	-1.41	15.253	15.355	0.74	-20.9	5.88	90	51.19	51.24
5630	32.08	-4.94	0.94	-1.21	15.97	16.108	0.94	-19.15	5.87	90	51.19	51.18
5650	38.12	-4.19	1.76	-0.39	18.629	19.489	1.76	-16.41	5.94	90	51.27	51.35
5670	38.2	-4.18	1.72	-0.43	18.418	19.783	1.72	-15.72	5.9	30	51.87	52.03
5690	41.45	-3.82	2.09	-0.06	20.242	21.206	2.09	-15.16	5.91	30	51.65	51.78
5710	41.5	-3.82	2.25	0.1	20.445	21.057	2.25	-15.62	6.07	90	51.72	51.82
5730	44.45	-3.52	2.58	0.43	21.61	22.839	2.58	-16.15	6.1	90	51.44	51.54
5750	47.02	-3.28	2.83	0.68	22.512	24.503	2.83	-15.12	6.11	90	51.34	51.37
5770	45.04	-3.46	2.65	0.5	21.624	23.418	2.65	-14.36	6.12	90	51.02	51.06
5790	45	-3.47	2.69	0.54	21.559	23.445	2.69	-14.23	6.15	90	51.25	51.33
5810	42.6	-3.71	2.53	0.38	20.114	22.484	2.53	-14.16	6.24	0	51.4	51.47
5830	43.45	-3.62	2.59	0.44	20.158	23.295	2.59	-13.87	6.21	0	51.9	51.91
5850	38.06	-4.2	1.88	-0.27	17.601	20.454	1.88	-14.93	6.08	150	51.77	51.94

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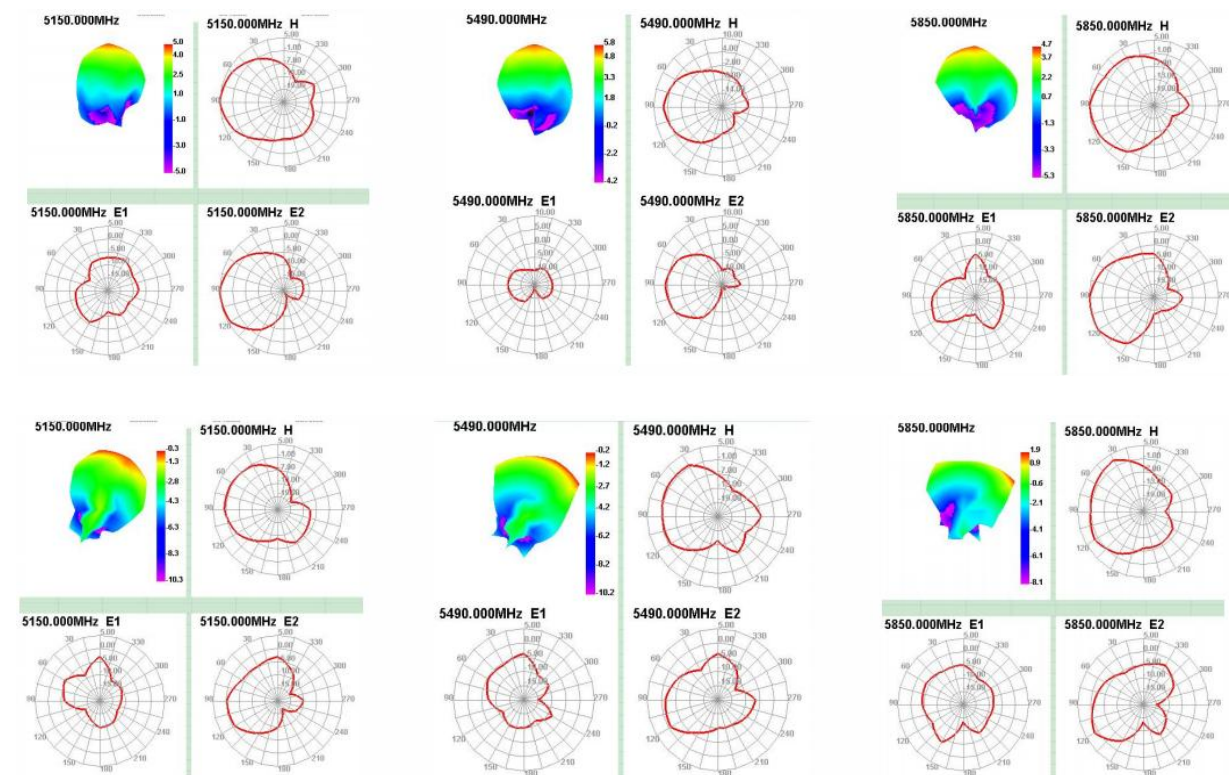
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Radiation Pattern(2.4G)



Radiation Pattern(5G)



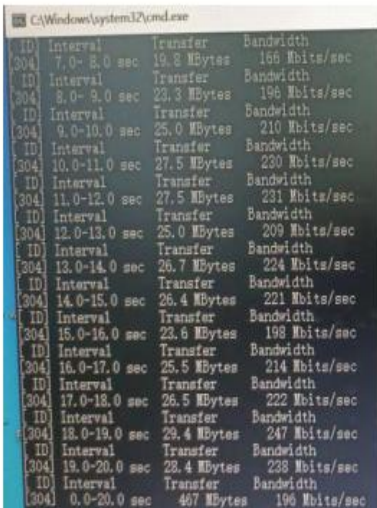
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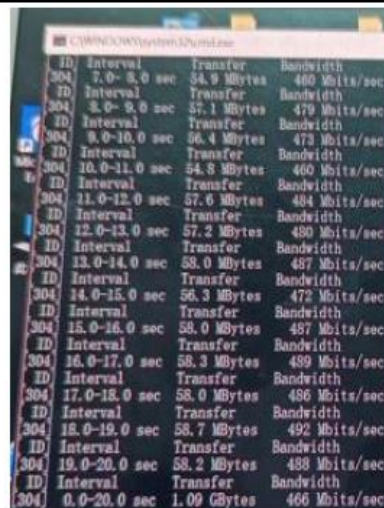
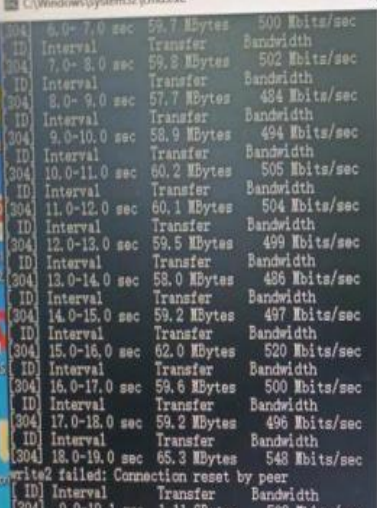
Throughput Test(2.4G)

2.4G wifi 吞吐量测试

上行		下行	
图片		图片	

Throughput Test(5G)

5G wifi 吞吐量测试

上行		下行	
图片		图片	

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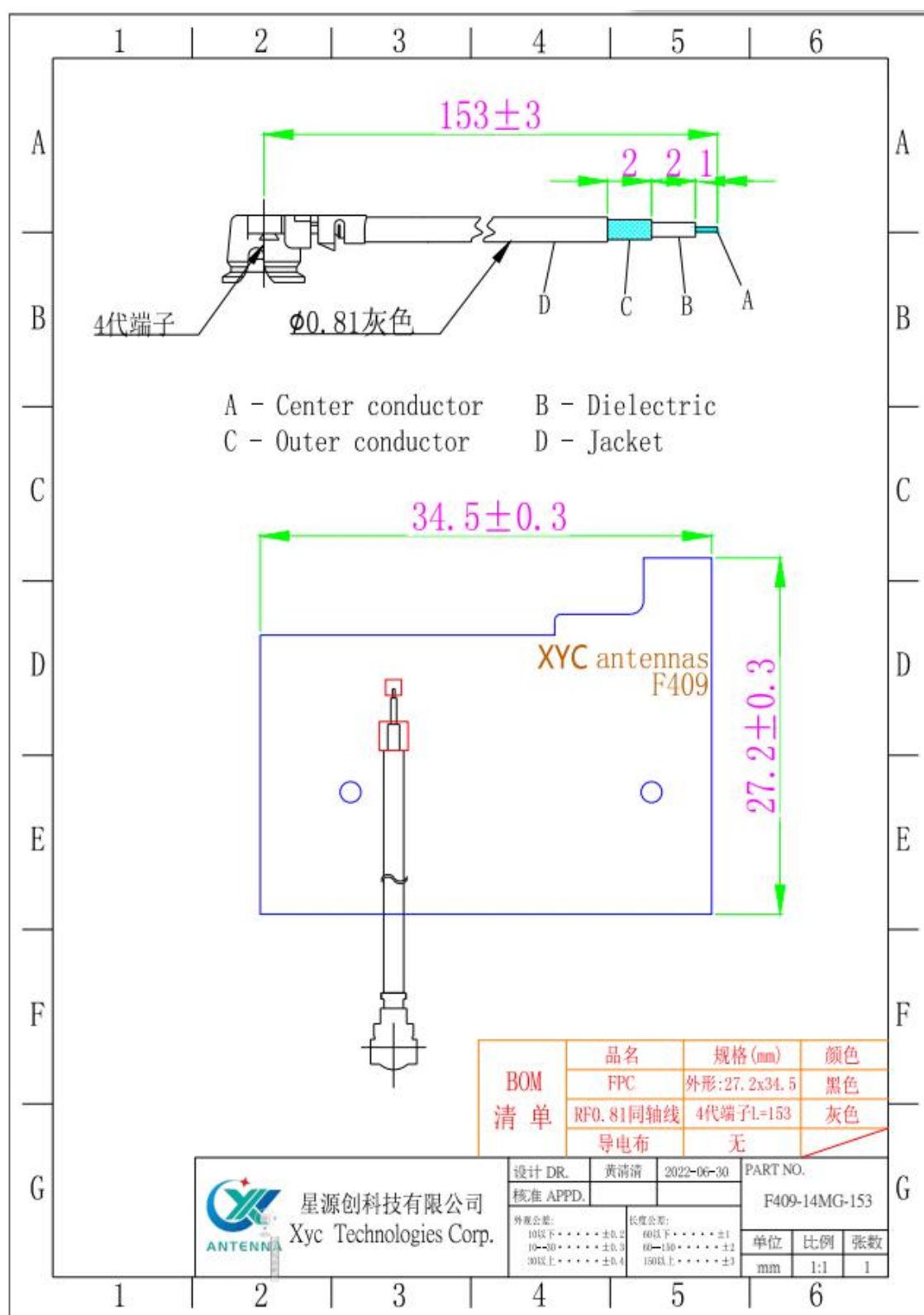
Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Antenna Assembly



地址: 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

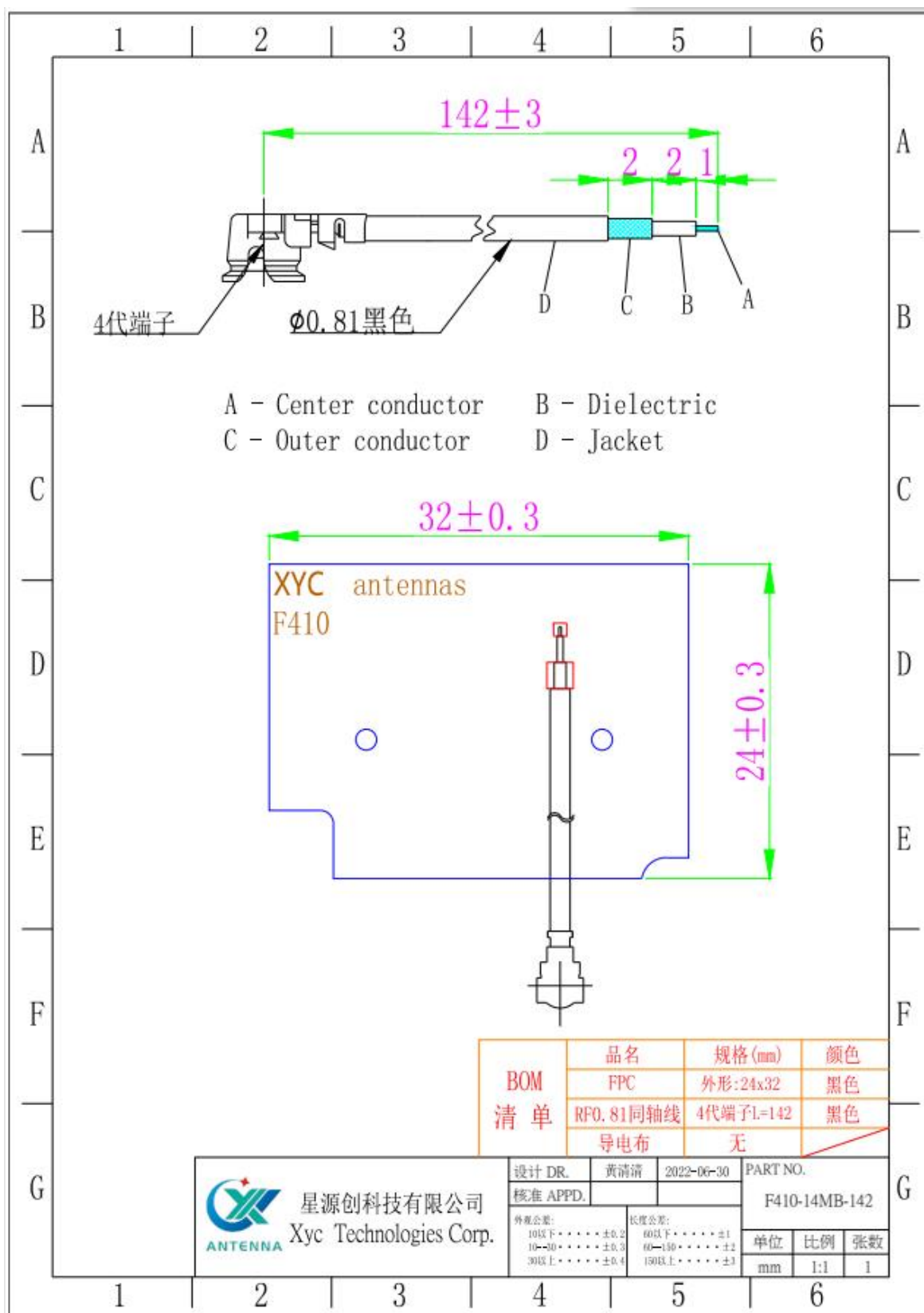
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Notes





Inspection Standard

深圳市星源创科技有限公司	文件编码	XYC-WI-PZ-02	页号
	文件版本	A0	1 of 1
文件名称	抽样计划		

抽样水平对照表

特殊检查水平				一般检查水平			批量范围	样本字码	抽样数	0.65		1.0		1.5		2.5		4.0		6.0	
S-1	S-2	S-3	S-4	I	II	III				AC	RE	AC	RE	AC	RE	AC	RE	AC	RE	AC	RE
A	A	A	A	A	A	B	2---8	A	2	0	1	0	1	0	1	0	1	0	1	0	1
A	A	A	A	A	B	C	9---15	B	3	0	1	0	1	0	1	0	1	0	1	0	1
A	A	B	B	B	C	D	16---25	C	5	0	1	0	1	0	1	0	1	0	1	1	2
A	B	B	C	C	D	E	26---50	D	8	0	1	0	1	0	1	0	1	1	2	1	2
B	B	C	C	C	E	F	51---90	E	13	0	1	0	1	0	1	1	2	1	2	2	3
B	B	C	D	D	F	G	91---150	F	20	0	1	0	1	1	2	1	2	2	3	3	4
B	C	D	E	E	G	H	151---280	G	32	0	1	1	2	1	2	2	3	3	4	5	6
B	C	D	E	F	H	J	281---500	H	50	1	2	1	2	2	3	3	4	5	6	7	8
C	C	E	F	G	J	K	501---1200	J	80	1	2	2	3	3	4	5	6	7	8	10	11
C	D	E	G	H	K	L	1201---3200	K	125	2	3	3	4	5	6	7	8	10	11	14	15
C	D	F	G	J	L	M	3201---10000	L	200	3	4	5	6	7	8	10	11	14	15	21	22
C	D	F	H	K	M	N	10001---35000	M	315	5	6	7	8	10	11	14	15	21	22	21	22
D	E	G	J	L	N	P	35001---150000	N	500	7	8	10	11	14	15	21	22	21	22	21	22
D	E	G	J	M	P	Q	150001---500000	P	800	10	11	14	15	21	22	21	22	21	22	21	22
D	E	H	K	N	Q	R	500001and over	Q	1250	14	15	21	22	21	22	21	22	21	22	21	22
								R	2000	21	22	21	22	21	22	21	22	21	22	21	22

AC为合格项 RE为不合格项

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深圳星源创科技有限公司

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Outgoing Inspection Report



深圳市星源创科技有限公司 出货检验报告

客户	攻氮	品名规格	主天线	出货数量	5	抽样数量	2	
机型	AB04		料号	F409-14MG-153		出货日期	2022/06/30	
检验标准	☒ 正常检验 ☐ 加严检验 ☐ 减量检验							
抽样方式	MIL-STD-105D (II) 单次抽样 接受限 AQL:CR: 0 Maj: 2.5 Min: 4.0							
质量允收水平			CR Acc	0	Maj ACC	0	Min ACC	0
			CR REJ	1	Maj REJ	1	Min REJ	1
项目	检验内容	检验要求	检验方法	检验结果				判定
				1	2	3	4	
尺寸检验	线总长	153±3	直尺	153	153			合格
	FPC外形	27.2±0.3	卡尺	27.1	27.2			合格
	FPC外形	34.5±0.3	卡尺	34.5	34.5			合格
项目	检验内容	检验要求	检验方法	缺陷描述	CR	Maj	Min	判定
外观检验	线外皮	外被有无刮伤现象	目视	无异常	0	0	0	合格
	焊盘加锡	无氧化、锡尖等现象	目视	无异常	0	0	0	合格
	IPEX	无缺料, 烈痕, 色差, 缩水, 烫伤, 无氧化、变色、变形脱线等不良现象	目视	无异常	0	0	0	合格
电气特性								
其它								
最终判定	☒ OK ☐ NG							

表格编号: XYC-WF-PZ-001

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深圳星源创科技有限公司

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深圳市星源创科技有限公司
出货检验报告

客户	攻氮	品名规格	副天线	出货数量	5	抽样数量	2	
机型	NQ15-P1X		料号	F410-14MB-142		出货日期	2022/6/30	
检验标准	☒ 正常检验 ☐ 加严检验 ☐ 减量检验							
抽样方式	MIL-STD-105D (II) 单次抽样 接受限 AQL:CR: 0 Maj: 2.5 Min: 4.0							
质量允收水平		CR Acc	0	Maj ACC	0	Min ACC	0	
		CR REJ	1	Maj REJ	1	Min REJ	1	
项目	检验内容	检验要求	检验方法	检验结果				判定
				1	2	3	4	
尺寸检验	线总长	142±3	直尺	142	142			合格
	FPC外形	24±0.3	卡尺	24	24			合格
	FPC外形	32±0.3	卡尺	32	31.9			合格
项目	检验内容	检验要求	检验方法	缺陷描述	C R	Maj	Min	判定
外观检验	线外皮	外被有无刮伤现象	目视	无异常	0	0	0	合格
	焊盘加锡	无氧化、锡尖等现象	目视	无异常	0	0	0	合格
	IPEX	无缺料, 烈痕, 色差, 缩水, 烫伤, 无氧化、变色、变形脱线等不良现象	目视	无异常	0	0	0	合格
电气特性								
其它								
最终判定	☒ OK ☐ NG							

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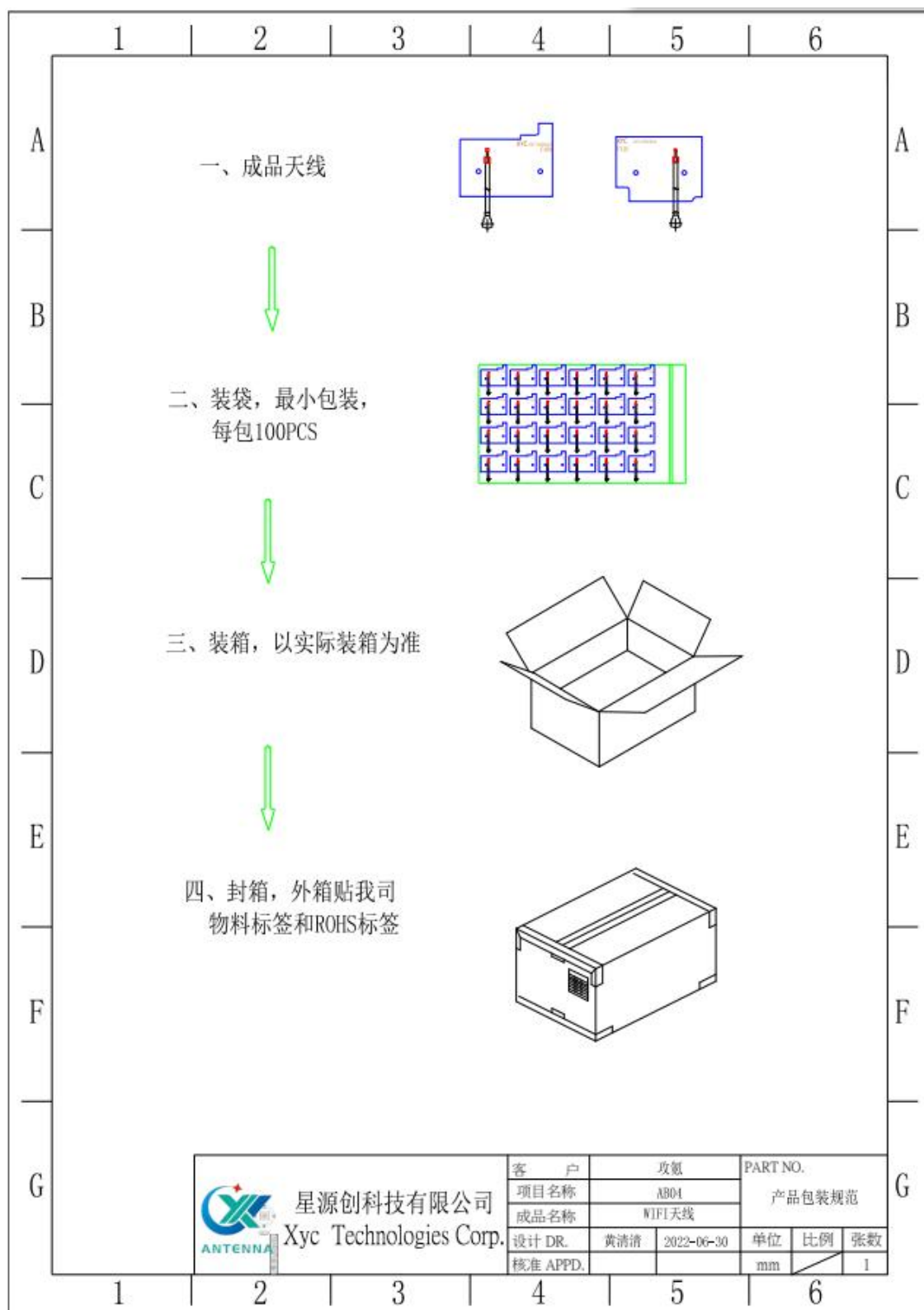
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Packing Specification



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